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File: USPT

Feb 3, 1998

US-PAT-NO: 5715403

DOCUMENT-IDENTIFIER: US 5715403 A

TITLE: System for controlling the distribution and use of digital works having attached usage rights where the usage rights are defined by a usage rights grammar

DATE-ISSUED: February 3, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stefik, Mark J.	Woodside	CA	N/A	N/A

US-CL-CURRENT: 705/44, 705/54, 705/57, 709/229, 713/202

ABSTRACT:

A system for controlling use and distribution of digital works. The present invention allows the owner of a digital work to attach usage rights to their work. The usage rights define how the individual digital work may be used and distributed. Instances of usage rights are defined using a flexible and extensible usage rights grammar. Conceptually, a right in the usage rights grammar is a label associated with a predetermined behavior and conditions to exercising the right. The behavior of a usage right is embodied in a predetermined set of usage transaction steps. The usage transaction steps further check all conditions which must be satisfied before the right may be exercised. These usage transaction steps define a protocol for requesting the exercise of a right and the carrying out of a right.

28 Claims, 20 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 13

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L8: Entry 9 of 9

File: USPT

May 13, 1997

US-PAT-NO: 5629980

DOCUMENT-IDENTIFIER: US 5629980 A

TITLE: System for controlling the distribution and use of digital works

DATE-ISSUED: May 13, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stefik, Mark J.	Woodside	CA	N/A	N/A
Casey, Michalene M.	Morgan Hill	CA	N/A	N/A

US-CL-CURRENT: 705/54

ABSTRACT:

A system for controlling use and distribution of digital works. In the present invention, the owner of a digital work attaches usage rights to that work. Usage rights are granted by the "owner" of a digital work to "buyers" of the digital work. The usage rights define how a digital work may be used and further distributed by the buyer. Each right has associated with it certain optional specifications which outline the conditions and fees upon which the right may be exercised. Digital works are stored in a repository. A repository will process each request to access a digital work by examining the corresponding usage rights. Digital work playback devices, coupled to the repository containing the work, are used to play, display or print the work. Access to digital works for the purposes of transporting between repositories (e.g. copying, borrowing or transfer) is carried out using a digital work transport protocol. Access to digital works for the purposes of replay by a digital work playback device (e.g. printing, displaying or executing) is carried out using a digital work playback protocol.

31 Claims, 20 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 13

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L8: Entry 4 of 9

File: USPT

Aug 24, 1999

US-PAT-NO: 5943422

DOCUMENT-IDENTIFIER: US 5943422 A

TITLE: Steganographic techniques for securely delivering electronic digital rights management control information over insecure communication channels

DATE-ISSUED: August 24, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Van Wie; David M.	Sunnyvale	CA	N/A	N/A
Weber; Robert P.	Menlo Park	CA	N/A	N/A

US-CL-CURRENT: 705/54, 705/58, 705/76, 713/176

ABSTRACT:

Electronic steganographic techniques can be used to encode a rights management control signal onto an information signal carried over an insecure communications channel. Steganographic techniques ensure that the digital control information is substantially invisibly and substantially indelibly carried by the information signal. These techniques can provide end-to-end rights management protection of an information signal irrespective of transformations between analog and digital. An electronic appliance can recover the control information and use it for electronic rights management to provide compatibility with a Virtual Distribution Environment. In one example, the system encodes low data rate pointers within high bandwidth time periods of the content signal to improve overall control information read/seek times.

348 Claims, 33 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 30

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L8: Entry 2 of 9

File: USPT

Nov 9, 1999

US-PAT-NO: 5982891

DOCUMENT-IDENTIFIER: US 5982891 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

DATE-ISSUED: November 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ginter, Karl L.	Beltsville	MD	N/A	N/A
Shear, Victor H.	Bethesda	MD	N/A	N/A
Spahn, Francis J.	El Cerrito	CA	N/A	N/A
Van Wie, David M.	Sunnyvale	CA	N/A	N/A

US-CL-CURRENT: 705/54, 705/26, 713/167

ABSTRACT:

The present invention provides systems and methods for secure transaction management and electronic rights protection. Electronic appliances such as computers equipped in accordance with the present invention help to ensure that information is accessed and used only in authorized ways, and maintain the integrity, availability, and/or confidentiality of the information. Such electronic appliances provide a distributed virtual distribution environment (VDE) that may enforce a secure chain-of-handling and control, for example, to control and/or meter or otherwise monitor use of electronically stored or disseminated information. Such a virtual distribution environment may be used to protect rights of various participants in electronic commerce and other electronic or electronic-facilitated transactions. Distributed and other operating systems, environments and architectures, such as, for example, those using tamper-resistant hardware-based processors, may establish security at each node. These techniques may be used to support an all-electronic information distribution, for example, utilizing the "electronic highway."

102 Claims, 153 Drawing figures Exemplary Claim Number: 1
Number of Drawing Sheets: 146

WEST**Generate Collection****Search Results - Record(s) 1 through 9 of 9 returned.** **1. Document ID: US 6185683 B1**

L8: Entry 1 of 9

File: USPT

Feb 6, 2001

US-PAT-NO: 6185683

DOCUMENT-IDENTIFIER: US 6185683 B1

TITLE: Trusted and secure techniques, systems and methods for item delivery and execution

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw. Desc](#) | [Image](#) | **2. Document ID: US 5982891 A**

L8: Entry 2 of 9

File: USPT

Nov 9, 1999

US-PAT-NO: 5982891

DOCUMENT-IDENTIFIER: US 5982891 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw. Desc](#) | [Image](#) | **3. Document ID: US 5949876 A**

L8: Entry 3 of 9

File: USPT

Sep 7, 1999

US-PAT-NO: 5949876

DOCUMENT-IDENTIFIER: US 5949876 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMC](#) | [Draw. Desc](#) | [Image](#) | **4. Document ID: US 5943422 A**

L8: Entry 4 of 9

File: USPT

Aug 24, 1999

US-PAT-NO: 5943422

DOCUMENT-IDENTIFIER: US 5943422 A

TITLE: Steganographic techniques for securely delivering electronic digital rights management control information over insecure communication channels

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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5. Document ID: US 5915019 A

L8: Entry 5 of 9

File: USPT

Jun 22, 1999

US-PAT-NO: 5915019

DOCUMENT-IDENTIFIER: US 5915019 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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6. Document ID: US 5910987 A

L8: Entry 6 of 9

File: USPT

Jun 8, 1999

US-PAT-NO: 5910987

DOCUMENT-IDENTIFIER: US 5910987 A

TITLE: Systems and methods for secure transaction management and electronic rights protection

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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7. Document ID: US 5715403 A

L8: Entry 7 of 9

File: USPT

Feb 3, 1998

US-PAT-NO: 5715403

DOCUMENT-IDENTIFIER: US 5715403 A

TITLE: System for controlling the distribution and use of digital works having attached usage rights where the usage rights are defined by a usage rights grammar

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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8. Document ID: US 5638443 A

L8: Entry 8 of 9

File: USPT

Jun 10, 1997

US-PAT-NO: 5638443

DOCUMENT-IDENTIFIER: US 5638443 A

TITLE: System for controlling the distribution and use of composite digital works

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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9. Document ID: US 5629980 A

L8: Entry 9 of 9

File: USPT

May 13, 1997

US-PAT-NO: 5629980

DOCUMENT-IDENTIFIER: US 5629980 A

TITLE: System for controlling the distribution and use of digital works

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KIMC](#) | [Draw Desc](#) | [Image](#)

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USPT	14 and @ad<=19990327	622	L6
USPT	14 and 12	0	L5
USPT	(drm\$ or (digital adj right adj management) or (digital-right-management))	634	L4
USPT	(drm\$ or (digital adj right adj management))	634	L3
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